

**ABSTRACT OF THE DISCLOSURE**

5 A method and host bus adapter for controlling failover  
and failback processes within a redundant data storage  
system. The method is carried out by a failover mechanism  
in a host bus adapter linked to a host server. The system  
includes a communication fabric providing data paths to  
pairs of redundant storage controllers managing access to  
storage devices (such as hard disk drives arranged as RAID).  
The method includes operating the host bus adapter to detect  
10 a failover condition and in response, to match the failover  
condition to a particular failover action. The failover  
conditions and corresponding actions are stored in a well-  
defined rule set accessed by the host bus adapter. The  
method continues with performing with the host bus adapter  
15 the matched failover action. The method is transparent to  
the host computer device, as the host is not required to  
participate in the failover processes.

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